

Claims

1. A method for optimizing the debarking of logs fed to a
5 rotating debarking drum, such that wood losses remain small while
control values of the debarking drum are selected such that the amount
of bark_remaining on the logs including damaged logs debarked in the
debarking drum is maintained at a target value, wherein the improvement
comprises that the amount of bark remaining on the logs in the log flow
10 discharged from the debarking drum and the amount of damaged logs in
said log flow are measured, and that at the same time as the amount of
bark remaining on the logs is maintained at said target value, the amount
of damaged logs is kept low, in such a way that the filling degree of logs
fed to the debarking drum is reduced in response to a measured increase
15 in the amount of damaged logs.

2. A method as claimed in claim 1, wherein the amount of
damaged logs is measured as an amount of logs shorter than the
expected length of said fed logs.

20

3. A method as claimed in claim 1, wherein the amount of
damaged logs is measured as an amount of logs narrower than the
expected value of said fed logs.

25 4. A method as claimed in claim 1, wherein the amount of
damaged logs is measured as an amount of logs deviating from the
expected cylindrical geometry of said fed logs.

30 5. A method as claimed in claim 4, wherein the amount of
damaged logs is measured by comparing the image formed of each log
and the cylindrical expectancy geometry.

6. A method as claimed in claim 1, wherein the measurement is carried out as direct measurement at one point in the log flow discharged from the debarking drum.

5 7. A method as claimed in claim 1, wherein the amount of damaged logs increases, the degree of filling is reduced at the same time as the speed of rotation of the drum is increased.

8. The method as claimed in claim 1, wherein the fed logs are
10 approximately the same size and of the same wood species.

9. The method as claimed in claim 7, wherein the fed logs are approximately the same size and of the same wood species.

15 10. A method for optimising the debarking of logs fed to a debarking device having a rotating drum and a fill capacity, comprising: feeding logs of approximately the same size and same species to the debarking device; controlling the feed rate of the logs to the debarking device; controlling the speed of rotation of the rotating drum; measuring
20 the degree of debarking on the discharged logs including logs damaged during debarking; measuring changes in the extent of logs damaged during debarking; and in response to the measurements of the degree of debarking and the extent of logs damaged during debarking, decreasing (increasing) the feed rate as the measured changes in the extent of
25 damaged logs increases (decreases).

11. The method as claimed in claim 10, wherein the speed of rotation of the drum is controlled to increase at the same time the feed rate is controlled to decrease.

30

12. The method as claimed in claim 10, wherein the measurement of changes in the extent of logs damaged during debarking is performed at a discharge chute downstream of the debarking drum

and the feed rate of the logs is controlled to adjust the fill level of logs in the debarking device commensurate with the measured change in the extent of damaged logs.

- 5 13. The method as claimed in claim 12, wherein the speed of rotation of the drum is controlled to increase as the feed rate is controlled to decrease, whereby control of the feed rate and the speed of rotation maintains the degree of debarking at a target value.